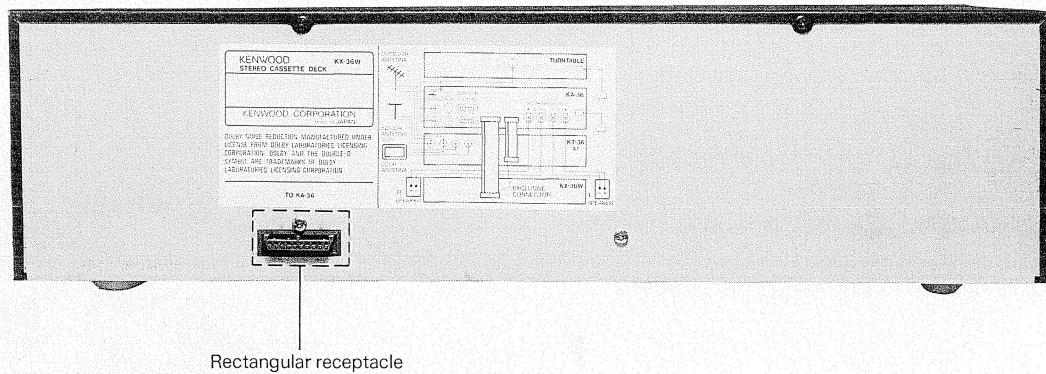
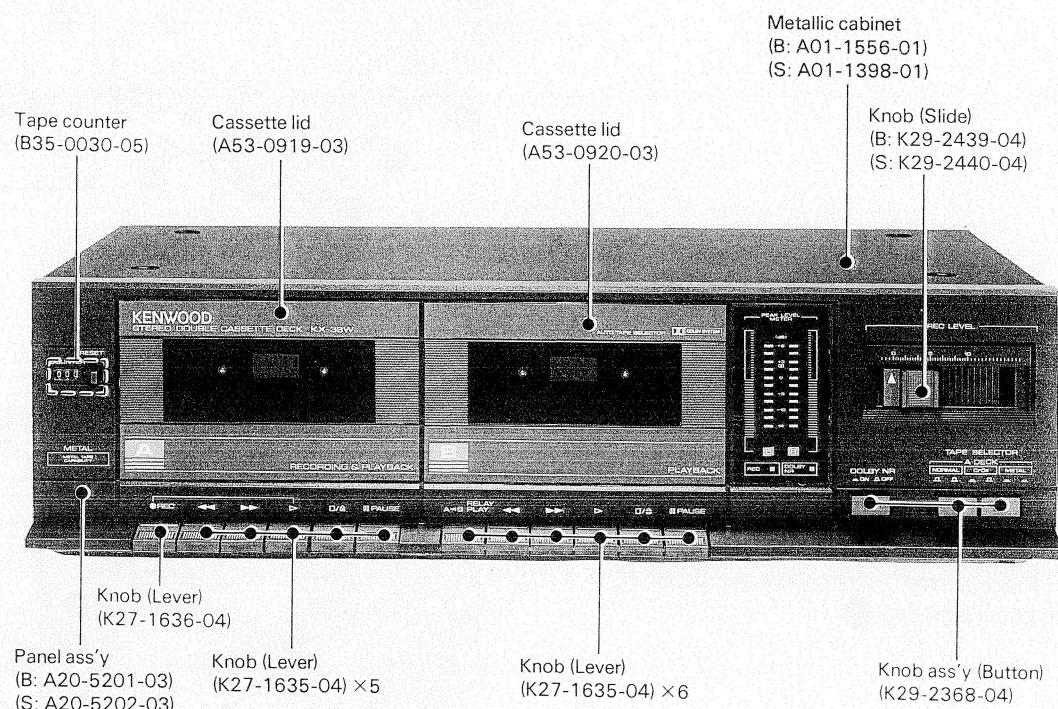


STEREO DOUBLE CASSETTE DECK  
**KX-36W**  
 SERVICE MANUAL

**KENWOOD**

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 B51-3155-00(B)1522

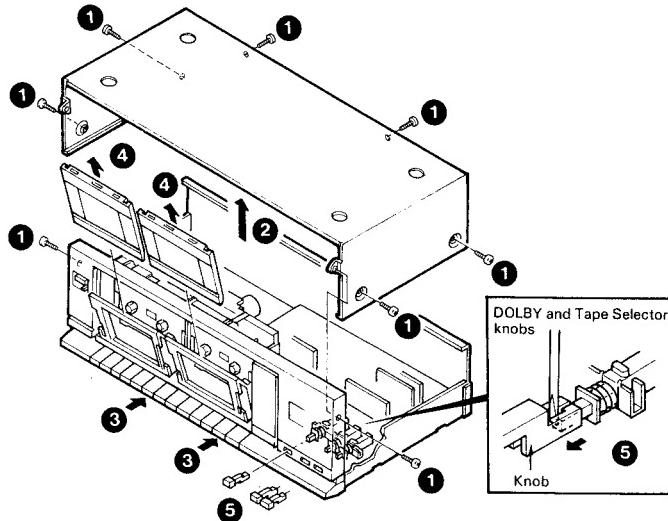


Note: When servicing of KT-36,  
 KT-36L, or KX-36W, be sure  
 to have the customer bring the  
 KA-36 or use the DC power  
 supply.

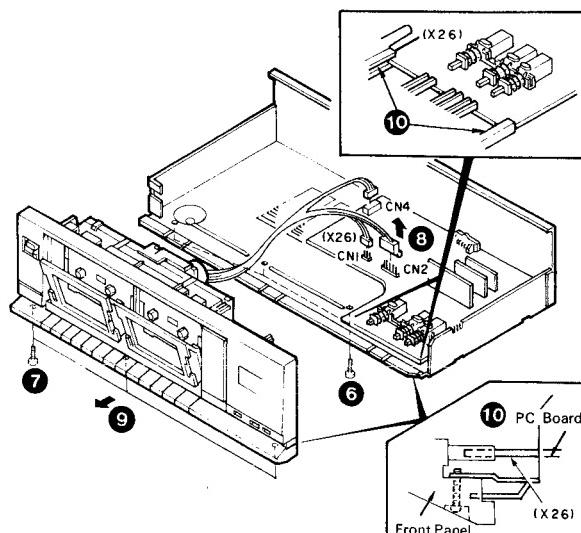
\* Refer to parts list on page 16.  
 Photo is black version.  
 (B: Black version.)  
 (S: Silver version.)

## DISASSEMBLY FOR REPAIR

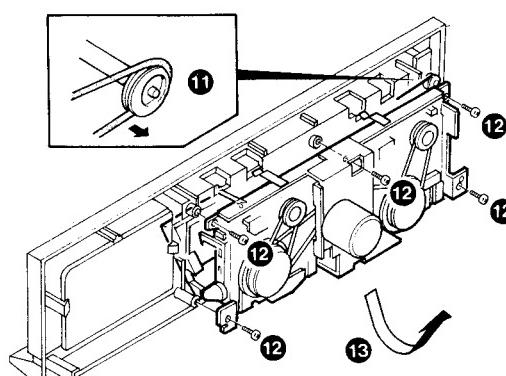
1. Remove the eight screws ① from the metal case.
2. Lift the metal case in the direction of the arrow ②.
3. Press the EJECT buttons to open cassette lids ③.
4. Detach the cassette lids in direction ④.
5. Using a  $\ominus$  screwdriver, remove the Dolby and Tape Selector knobs in direction ⑤.



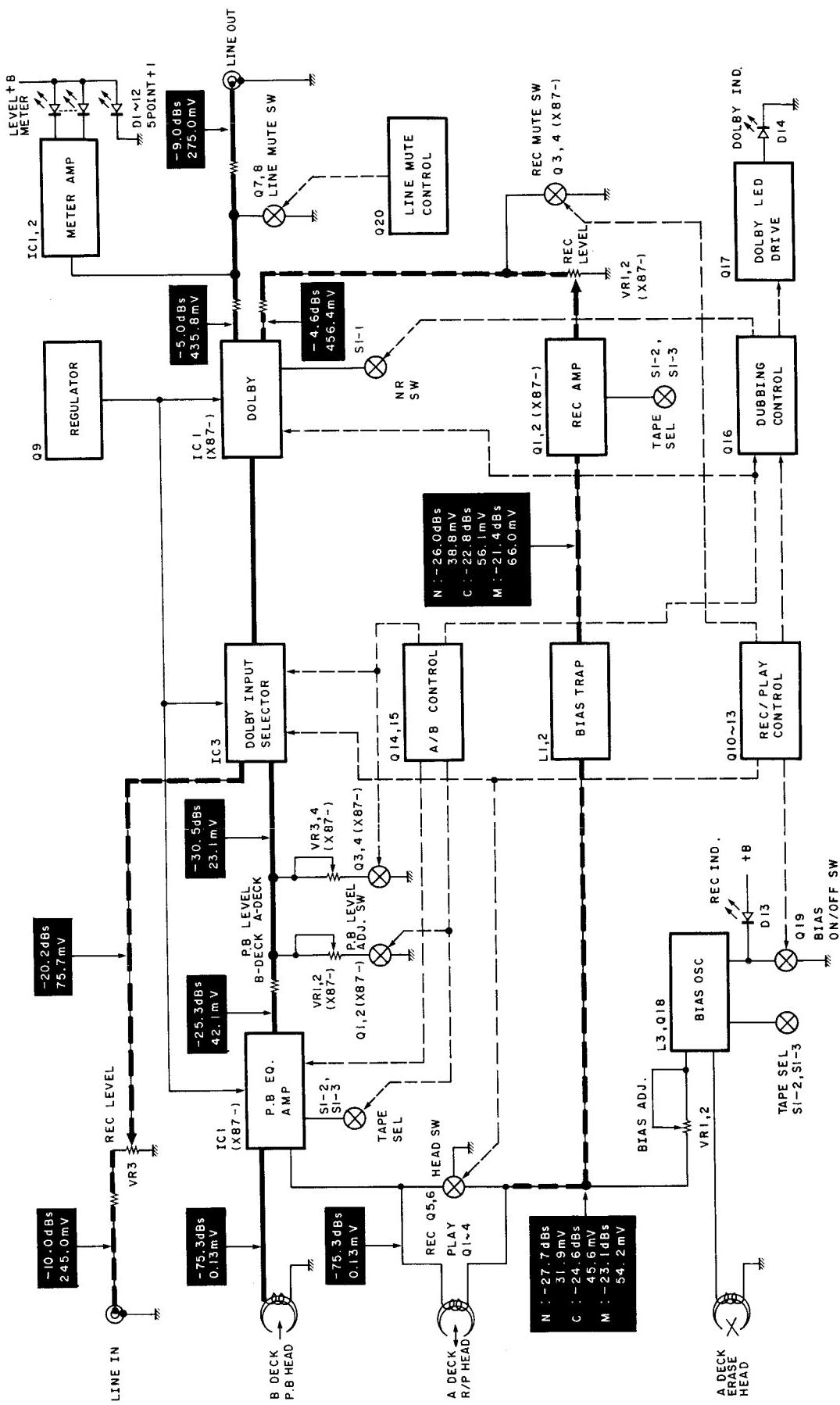
6. Remove the three screws ⑥ attached to the mechanism from the bottom panel.
7. Remove the three screws ⑦ attached to the front panel.
8. Disconnect the connectors CN1, CN2, and CN4 ⑧.
9. Detach the front panel in the direction of the arrow ⑨.
10. When attaching the front panel, slide the (X26) PC board into the panel's groove ⑩.



11. Remove the belt attached to the mechanism and the counter ⑪.
12. Remove the five screws ⑫ attached to the mechanism.
13. Remove the mechanism in the direction of the arrow ⑬.



## **BLOCK LEVEL DIAGRAM**



# CIRCUIT DESCRIPTION

**RECORDING AMPLIFIER UNIT (X87-1040-00)**

| Component | Application/Function | Operation/Conditions/Interchangeability   |
|-----------|----------------------|---|
| Q1, 2     | REC amplifier        |   |
| Q3, 4     | REC MUTE switch      | Controlled by REC SW in mechanism. During REC and REC PAUSE modes, shorted to GND by REC SW in mechanism, becomes "L", turning Q3 and Q4 OFF. In other modes, as REC SW in mechanism is OPEN, becomes "H", turning them ON. |

**DOLBY NR UNIT (X87-1070-00)**

| Component | Application/Function | Operation/Conditions/Interchangeability |
|-----------|----------------------|---|
| IC1       | DOLBY amplifier      | DOLBY B type                            |

**PLAYBACK AMPLIFIER UNIT (X87-1100-00)**

| Component | Application/Function              | Operation/Conditions/Interchangeability  |
|-----------|-----------------------------------|--|
| IC1       | Playback equalizer amplifier      |  |
| Q1, 2     | B deck PB LEVEL adjustment switch | Operates according to A/B selection control (X26-1152-70 Q15). ON in B deck PLAY mode, OFF in other modes. (Refer to X26-1152-70, Q14, 15) |
| Q3, 4     | A deck PB LEVEL adjustment switch | Operates according to A/B selection control (X26-1152-70 Q14). OFF in B deck PLAY mode, ON in other modes. (Refer to X26-1152-70, Q14, 15) |

# CIRCUIT DESCRIPTION

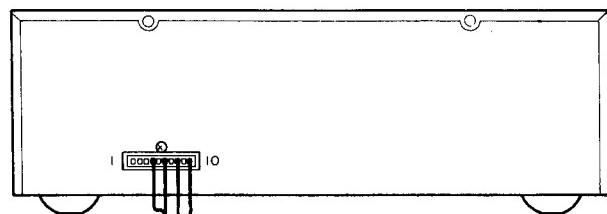
## Function of components

### CASSETTE UNIT (X26-1152-70)

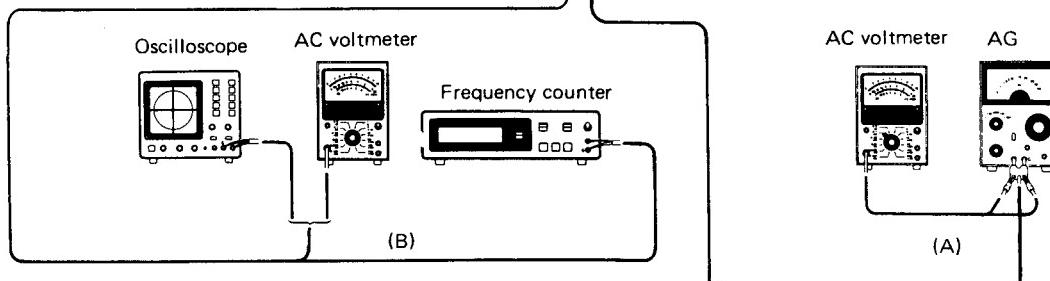
| Component     | Application/Function       | Operation/Conditions/Interchangeability  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
|---------------|----------------------------|--|-------------|--|--|---------------|-------------|-------------|---------------|-----|-----|-----|---------------|-----|-----|-----|
| IC1, 2        | Level meter driving        | 5 segments × 2, displays for -10, -5, 0, +3, +6.   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| IC3           | DOLBY input selection      | Input the signals from LINE IN (REC mode) or the playback signals (other modes, including dubbing to DOLBY amplifier).   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q1～4          | Head selection switch      | OFF in REC and REC PAUSE modes, ON in other modes. Requires a high dielectric strength, an appropriately low saturation voltage, and a small ON resistance. Controlled by Q12. (Refer to Q10～12)   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q5, 6         | Head selection switch      | ON in REC and REC PAUSE modes, OFF in other modes. Controlled by Q10. (Refer to Q10～12)  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q7, 8         | LINE MUTE switch           | In PLAY and REC modes (including REC PAUSE), when PB SW in mechanism is shorted, "H" is output, turning Q20 OFF. "L" is applied to the base of Q7 and Q8, turning them OFF. ON in other modes. (Refer to Q20)  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q9            | +12.6 V power supply       | Regulated power supply for playback amplifier, DOLBY input selection IC, and DOLBY amplifier.  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q10～12        | REC/PLAY selection control | Controlled by REC SW in mechanism. In REC and REC PAUSE modes, shorted to GND by REC SW in mechanism and becomes "L". In other modes, "H".   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
|               |                            | <table border="1"> <thead> <tr> <th></th><th>REC/REC PAUSE</th><th>Other Modes</th></tr> </thead> <tbody> <tr> <td>Q10</td><td>OFF</td><td>ON</td></tr> <tr> <td>Q11</td><td>ON</td><td>OFF</td></tr> <tr> <td>Q12</td><td>OFF</td><td>ON</td></tr> </tbody> </table>  |             |  |  | REC/REC PAUSE | Other Modes | Q10         | OFF           | ON  | Q11 | ON  | OFF           | Q12 | OFF | ON  |
|               | REC/REC PAUSE              | Other Modes  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q10           | OFF                        | ON   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q11           | ON                         | OFF  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q12           | OFF                        | ON   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q13           | +12.8 V power supply       | Regulated power supply for REC/PLAY selection control.   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q14, 15       | A/B selection control      | Controlled by B deck PB SW in mechanism. During B deck PLAY mode, when B deck PB SW is shorted, A/B selection control becomes "H". In other modes, "L".  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
|               |                            | <table border="1"> <thead> <tr> <th></th><th>B Deck PLAY</th><th>Other Modes</th></tr> </thead> <tbody> <tr> <td>Q14</td><td>ON</td><td>OFF</td></tr> <tr> <td>Q15</td><td>OFF</td><td>ON</td></tr> </tbody> </table>  |             |  |  | B Deck PLAY   | Other Modes | Q14         | ON            | OFF | Q15 | OFF | ON            |     |     |     |
|               | B Deck PLAY                | Other Modes  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q14           | ON                         | OFF  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q15           | OFF                        | ON   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q16           | Dubbing control            | Controlled by REC SW in mechanism. During REC and REC PAUSE modes, shorted to GND by REC SW in mechanism, becomes "L", and Q16 is turned OFF. ON in other modes. As the Q16 and Q15 collectors are connected and used as output, according to the table below, the output is "H" in dubbing mode (A deck REC + B deck PLAY), "L" in other modes. |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
|               |                            | <table border="1"> <thead> <tr> <th></th><th>REC/REC PAUSE</th><th>B Deck PLAY</th><th>Other Modes</th></tr> </thead> <tbody> <tr> <td>Q16 Collector</td><td>"H"</td><td>"L"</td><td>"L"</td></tr> <tr> <td>Q15 Collector</td><td>"L"</td><td>"H"</td><td>"L"</td></tr> </tbody> </table>  |             |  |  | REC/REC PAUSE | B Deck PLAY | Other Modes | Q16 Collector | "H" | "L" | "L" | Q15 Collector | "L" | "H" | "L" |
|               | REC/REC PAUSE              | B Deck PLAY  | Other Modes |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q16 Collector | "H"                        | "L"  | "L"         |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q15 Collector | "L"                        | "H"  | "L"         |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q17           | DOLBY LED driving          | Controlled by Q15 and Q16. ON in dubbing mode. OFF in other modes. (Refer to Q16)  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q18           | BIAS oscillation           | Drives primary side of bias oscillation transformer.   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q19           | BIAS oscillator switch     | Controlled by Q10. ON in REC and REC PAUSE modes. OFF in other modes. (Refer to Q10～12)  |             |  |  |               |             |             |               |     |     |     |               |     |     |     |
| Q20           | LINE MUTE control          | Controlled by PB SW in mechanism. During PLAY and REC (including REC PAUSE) modes, PB SW in mechanism is shorted, "H" is output, and Q20 is turned OFF. ON in other modes.   |             |  |  |               |             |             |               |     |     |     |               |     |     |     |

## ADJUSTMENT

| No.   | ITEM                            | INPUT SETTINGS                       | OUTPUT SETTINGS | CASSETTE TAPE DECK SETTINGS  | ALIGNMENT POINTS                                       | ALIGN FOR  | FIG. |
|---|---------------------------------|--------------------------------------|-----------------|--|--|--|------|
| CASSETTE DECK SECTION TAPE: NORMAL, DOLBY: OFF, INPUT: LINE 0dBs = 0.775V |                                 |                                      |                 |  |  |  |      |
| I REC/PLAY HEAD   |                                 |                                      |                 |  |  |  |      |
| [1]   | DEMAGNETIZATION                 | --                                   | --              | POWER: OFF<br>Remove the cassette door.  | REC/PLAY head  | Demagnetize the REC/PLAY head with a head demagnetizer.  |      |
| [2]   | CLEANING                        | --                                   | --              | PLAY   | REC/PLAY head<br>erase head, capstan and pinch roller. | Clean the REC/PLAY head<br>erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.                                  |      |
| [3]   | AZIMUTH                         | MTT-114<br>10kHz, -10dB              | (B)             | PLAY   | Azimuth adjustment screw                               | Minimum output   |      |
| DC MOTOR  |                                 |                                      |                 |  |  |  |      |
| (i)   | TAPE SPEED                      | MTT-111<br>3kHz                      | (B)             | PLAY   | Trimming potentiometer in the DC motor                 | Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.   |      |
| II PC BOARD (X26-1152-70, X87-1040-00, X87-1100-00)                       |                                 |                                      |                 |  |  |  |      |
| <1>   | PLAYBACK LEVEL<br>(X87-1100-00) | (a) MTT-111<br>400Hz                 | (B)             | PLAY   | DECK A:<br>VR4(L)<br>VR3(R)                            | Output level: -7.0dBs  | (a)  |
|   |                                 | (b) MTT-256<br>315Hz                 |                 |  | DECK B:<br>VR2(L)<br>VR1(R)                            | Output level: -9.5dBs  |      |
|   |                                 | (c) MTT-256U<br>315Hz                |                 |  |  | Output level: -5.5dBs  |      |
| <2>   | BIAS CURRENT<br>(X26-1152-70)   | (A)<br>1kHz, -30dBs<br>10kHz, -30dBs | (B)             | Adjust VR5 so that the REC monitor output becomes -29dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation. | VR1(L)<br>VR2(R)                                       | Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained. | (b)  |
| <3>   | RECORD LEVEL<br>(X87-1040-00)   | (A)<br>1kHz, -30dBs                  | (B)             | Record and reproduce a 1kHz signal under the conditions set in <2>.  | VR2(L)<br>VR1(R)                                       | Adjust the variable resistors so that a playback level of -9dBs is obtained.   | (c)  |



LINE IN (L) : 10pin, (R) : 8pin, (GND) : 9pin  
 LINE OUT (L) : 6pin, (R) : 4pin, (GND) : 5pin  
 +15.9 V : 2pin  
 0V : 1pin



# KX-36W KX-36W

## REGLAGE

| N°   | ITEM                                     | REGLAGE DE L'ENTREE                  | REGLAGE DE LA SORTIE | REGLAGE DU MAGNETO -PHONE A CASSETTE   | POINTS DE L'ALIGNEMENT  | ALIGNER POUR  | FIG. |
|--|--|--------------------------------------|----------------------|--|---|---|------|
| SECTION DU MAGNETOPHONE TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE |  |                                      |                      |  |   |   |      |
| 0dBs = 0,775V  |  |                                      |                      |  |   |   |      |
| I TETE D'ENREGISTREMENT/LECTURE                                |  |                                      |                      |  |   |   |      |
| [1]  | DEMAGNETISATION                          | -                                    | -                    | POWER: OFF<br>Eloigner la porte.   | Tete D'ENREGISTREMENT/<br>LECTURE   | Demagnetiser la tete<br>D'ENREGISTREMENT/LECTURE<br>avec un demagnetiseur<br>de tete.   |      |
| [2]  | NETTOYAGE                                | -                                    | -                    | PLAY   | Tete D'ENREGISTREMENT/<br>LECTURE tete<br>d'effacement. le<br>cabestan et le galetpresseur<br>cabestan.<br>galetpresseur. | Nettoyer la tete<br>D'ENREGISTREMENT/LECTURE<br>la tete d'effacement. le<br>cabestan et le galetpresseur<br>avec un coton-tige<br>legerement imbibé d'alcool.                                   |      |
| [3]  | AZIMUT                                   | MTT-114<br>10kHz, -10dB              | (B)                  | PLAY   | Vis d'azimut  | Sortie minimale   |      |
| MOTEUR CC  |  |                                      |                      |  |   |   |      |
| (i)  | VITESSE DE DEFILEMENT                    | MTT-111<br>3kHz                      | (B)                  | PLAY   | Resistance<br>ajustable du<br>moteur CC   | Regler la vitesse de bande<br>de façon qu'un signal<br>de 3kHz soit produit au<br>centre de la bande.   |      |
| II PLAQUE IMPRIMEE (X26-1152-70,X87-1040-00,X87-1100-00)       |  |                                      |                      |  |   |   |      |
| <1>  | NIVEAU DE LECTURE<br>(X87-1100-00)       | (a) MTT-111<br>400Hz                 | (B)                  | PLAY   | DECK A:<br>VR4(G)<br>VR3(D)   | Niveau de sortie: -7,0dBs   | (a)  |
|  |  | (b) MTT-256<br>315Hz                 |                      |  | DECK B:<br>VR2(G)<br>VR1(D)   | Niveau de sortie: -9,5dBs   |      |
|  |  | (c) MTT-256U<br>315Hz                |                      |  |   | Niveau de sortie: -5,5dBs   |      |
| <2>  | COURANT DE POLARISATION<br>(X26-1152-70) | (A)<br>1kHz. -30dBs<br>10kHz. -30dBs | (B)                  | Régler VR5 de<br>façon que la<br>sortie de moniteur<br>REC soit de -29dBs<br>a 1kHz, puis en<br>register et<br>signaux de 1kHz et<br>10kHz en<br>alternance. | VR1(G)<br>VR2(D)  | Enregistrer un signal de<br>1kHz et 10kHz en<br>alternance et ajuster les<br>resistances variables qui<br>commandent le courant de<br>polarite de façon a obtenir<br>le meme niveau de lecture. | (b)  |
| <3>  | NIVEAU D'ENREGISTREMENT<br>(X87-1040-00) | (A)<br>1kHz. -30dBs                  | (B)                  | Enregistrer et<br>reproduire un<br>signal de 1kHz<br>dans les<br>conditions<br>precisees en <2>.   | VR2(G)<br>VR1(D)  | Ajuster les resistances<br>variables de façon a<br>obtenir un niveau de<br>lecture de -9dBs.  | (c)  |

## ABGLEICH

| NR.  | GEGENSTAND                       | EINGANGS-EINSTELLUNG                 | AUSGANGS-EINSTELLUNG | KASSETTENGERÄT-EINSTELLUNG                                      | ABGLEICH PUNKTE   | ABGLEICHEN FÜR  | ABB. |
|--|----------------------------------|--------------------------------------|----------------------|---|---|---|------|
| CASSETTEN-DECK-ABTEILUNG TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE |                                  |                                      |                      |   |   |   |      |
| 0dBs = 0,775V  |                                  |                                      |                      |   |   |   |      |
| I AUFNAHME/WIEDERGABE-KOPF                                       |                                  |                                      |                      |   |   |   |      |
| [1]  | ENTMAGNETISIERUNG                | -                                    | -                    | POWER: OFF<br>Den Kassettenfach<br>deckel oben<br>herausziehen. | AUFNAHME/WIEDERGABE-KOPF  | Entmagnetisierung von dem<br>AUFNAHME/WIEDERGABE-Kopf<br>mit einem Tonkopf<br>Entmagnetisierungsdrossel.  |      |
| [2]  | REINIGUNG                        | -                                    | -                    | PLAY  | AUFNAHME/WIEDERGABE-Kopf<br>Löschkopf, Tonwelle und<br>Andruckrolle mit einem<br>leicht mit Alkohol befeuchteten<br>Wattebausch reinigen.                                   | AUFNAHME/WIEDERGABE-Kopf,<br>Löschkopf, Tonwelle und<br>Andruckrolle mit einem<br>leicht mit Alkohol befeuchteten<br>Wattebausch reinigen.  |      |
| [3]  | AZIMUT-EINSTELLUNG               | MTT-256<br>10kHz. -10dB              | (B)                  | PLAY  | Azimut-Einstellschraube   | Minimal Ausgang   |      |
| GLEICHSTROMMOTOR   |                                  |                                      |                      |   |   |   |      |
| (i)  | BANDGESCHWINDIGKEIT              | MTT-111<br>3kHz                      | (B)                  | PLAY  | Trimmer potentiometer am<br>Gleichstrommotor  | Die Bandgeschwindigkeit<br>so justieren, das ein<br>3kHz Signal auf der Mitte<br>des Bands erzeugt wird.  |      |
| II GEDRUCKTE SCHALTPLATTE (X26-1152-70,X87-1040-00,X87-1100-00)  |                                  |                                      |                      |   |   |   |      |
| <1>  | WIEDERGABEPEGEL<br>(X87-1100-00) | (a) MTT-150<br>400Hz                 | (B)                  | PLAY  | DECK A:<br>VR4(L)<br>VR3(R)   | Ausgangspegel: -7,0dBs  | (a)  |
|  |                                  | (b) MTT-256<br>315Hz                 |                      |   | DECK B:<br>VR2(L)<br>VR1(R)   | Ausgangspegel: -9,5dBs  |      |
|  |                                  | (c) MTT-256U<br>315Hz                |                      |   |   | Ausgangspegel: -5,5dBs  |      |
| <2>  | LEERLAUFSTROM<br>(X26-1152-70)   | (C)<br>1kHz. -30dBs<br>10kHz. -30dBs | (B)                  |   | VR5 so justieren,<br>dass der REC<br>Monitorausgang<br>-29dBs bei 1kHz<br>wird, und danach<br>abwechselnd<br>Signale von<br>1kHz und 10kHz<br>aufnehmen und<br>wiedergeben. | Signale von 1kHz und 10kHz<br>abwechselnd aufnehmen und<br>die Regelwiderstände, die<br>den Vormagnetisierungsstrom<br>regeln, so justieren, das<br>der gleiche Wiedergabepiegel<br>erzielt wird. | (b)  |
| <3>  | UFNAHMEPEGEL<br>(X87-1040-00)    | (C)<br>1kHz. -30dBs                  | (B)                  |   | Ein 1kHz Signal<br>unter den in Punkt<br><2> beschriebenen<br>Bedingungen<br>aufnehmen und<br>reproduzieren.  | Die Regelwiderstände so<br>justieren, das ein<br>wiedergabepiegel von<br>-9dBs erzielt wird.  | (c)  |

# PC BOARD (Component Side View)

|             |      |                 |                 |
|-------------|------|-----------------|-----------------|
| X26-1152-70 | IC 1 | 1 - 4 OFF 14.4V | 1 - 4 OFF 14.4V |
|             | IC 2 | 5 - 9 OV        | 5 - 9 OV        |
|             |      | 6 - OFF 14.4V   | 6 - OFF 14.4V   |
|             |      | 7 - OV          | 7 - OV          |
|             |      | 8 - OV          | 8 - OV          |
|             |      | 9 - 15.9V       | 9 - 15.9V       |

|           |                   |          |
|-----------|-------------------|----------|
| IC 3      | 1 - 6.3V          | 9 - 6.3V |
| 2 -       | 10 -              | 6.9V     |
| 3 - OV    | 11 -              | OV       |
| 4 - OV    | 12 - REC 2.9V     |          |
| 5 - 12.6V | 13 - OTHERS 0.5V  |          |
| 6 -       | 14 - DUBBING 0.5V |          |
| 7 - 6.3V  | 15 - 6.3V         |          |
| 8 - 6.3V  | 16 - 6.3V         |          |
| 9 -       | 17 -              |          |

|              |           |               |
|--------------|-----------|---------------|
| Q9           | E - 12.6V | E - OV        |
| B -          | 13.2V     | B -           |
| C - REC 8.5V | -         | C - OTHERS OV |

|           |        |                 |
|-----------|--------|-----------------|
| Q11       | E - OV | E - REC OV      |
| B -       | -      | B - OTHERS 6.3V |
| C - REC - | -      | C - OTHERS 6.4V |

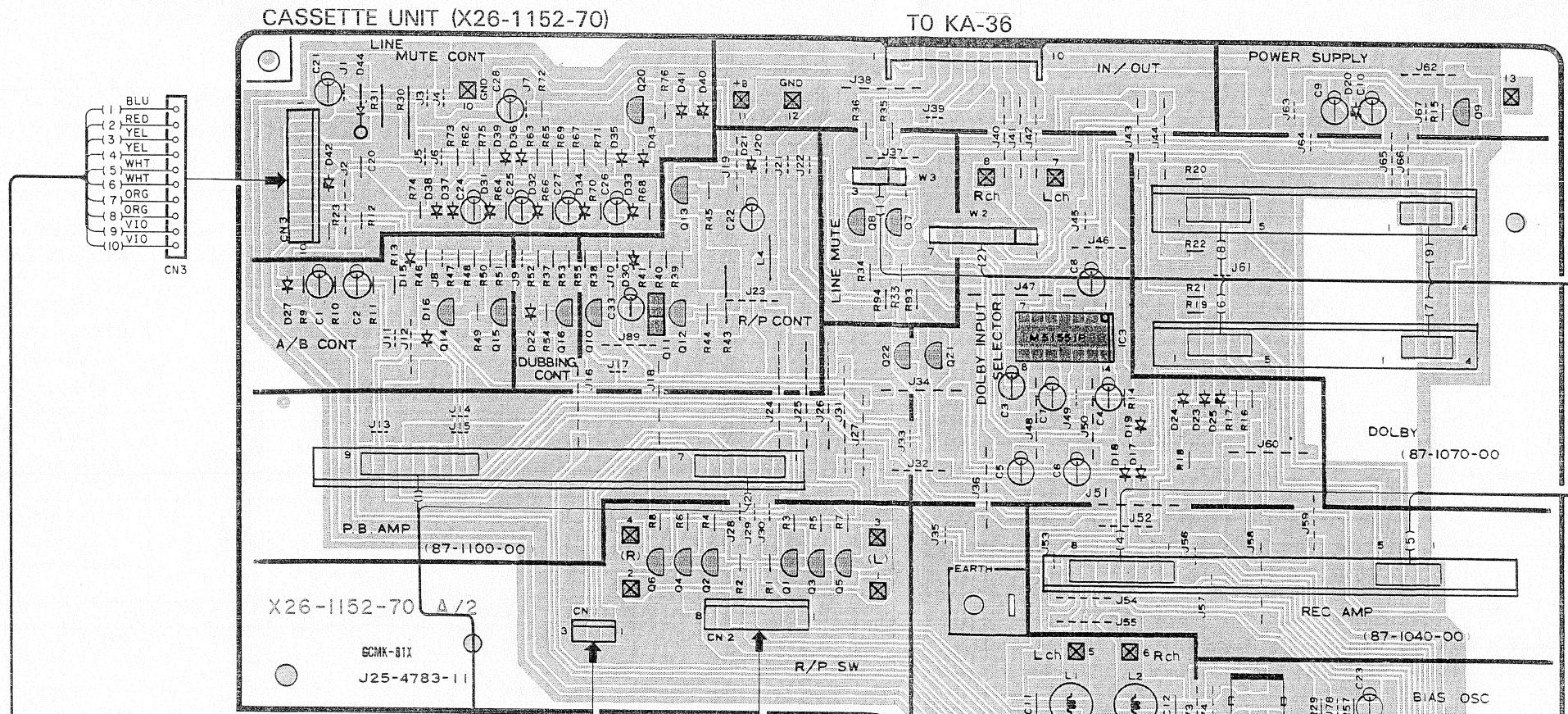
|               |              |                  |
|---------------|--------------|------------------|
| Q13           | E - 12.6V    | E - OV           |
| B -           | 13.5V        | B -              |
| C - B PLAY OV | OTHERS 13.4V | C - OTHERS 13.4V |

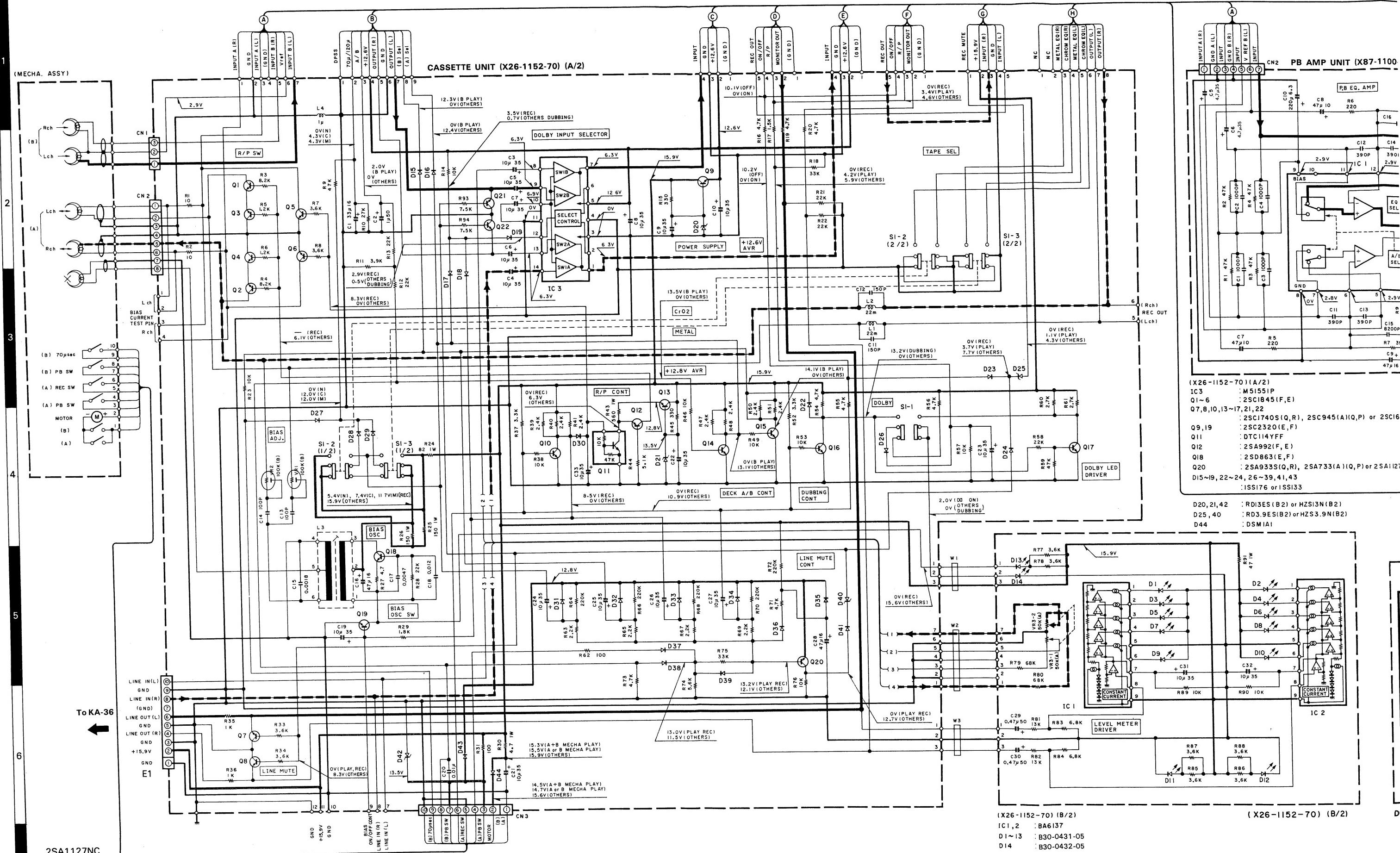
|                  |               |               |
|------------------|---------------|---------------|
| Q15              | E - OV        | E - OV        |
| B -              | -             | B -           |
| C - B PLAY 14.1V | DUBBING 13.2V | C - OTHERS OV |

|                    |              |  |
|--------------------|--------------|--|
| Q20                | E - 12.6V    |  |
| B - PLAY REC 13.2V | OTHERS 12.1V |  |
| C - PLAY-REC OV    | -            |  |
| D - OTHERS 12.7V   | -            |  |

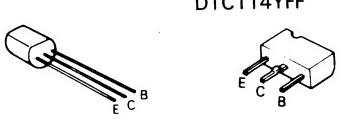
|             |      |            |            |
|-------------|------|------------|------------|
| X87-1070-00 | IC 1 | 1 - 14.3V  | 9 - 7.0V   |
|             | IC 2 | 2 - 7.0V   | 10 - 7.0V  |
|             | IC 3 | 3 - OV     | 11 - 13.5V |
|             | IC 4 | 4 - 5.7V   | 12 - ON OV |
|             | IC 5 | 5 - 5.7V   | 13 - 7.0V  |
|             | IC 6 | 6 - 7.0V   | 14 - 7.4V  |
|             | IC 7 | 7 - 3.0V   | 15 - 8.5V  |
|             | IC 8 | 8 - REC OV | 16 - 12.4V |

|             |      |           |           |
|-------------|------|-----------|-----------|
| X87-1100-00 | IC 1 | 1 - 10.5V | 9 - 2.9V  |
|             | IC 2 | 2 - 2.4V  | 10 - -    |
|             | IC 3 | 3 - A OV  | 11 - 2.9V |
|             | IC 4 | 4 - 2.4V  | 12 - 2.9V |
|             | IC 5 | 5 - 2.9V  | 13 - 2.9V |
|             | IC 6 | 6 - 2.9V  | 14 - 2.4V |
|             | IC 7 | 7 - 2.9V  | 15 - 2.4V |
|             | IC 8 | 8 - OV    | 16 - 2.4V |

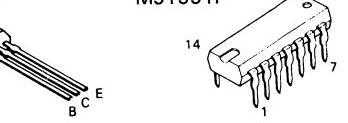




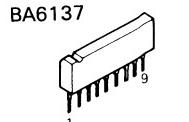
2SA1127NC  
2SA733(A)  
2SA992  
2SC1685  
2SC1845  
2SC1980  
2SC2320  
2SC945(A)  
2SD863



DTC114YFF  
2SA933S  
2SC1740S



M51551P  
TA7629P  
TA7705P

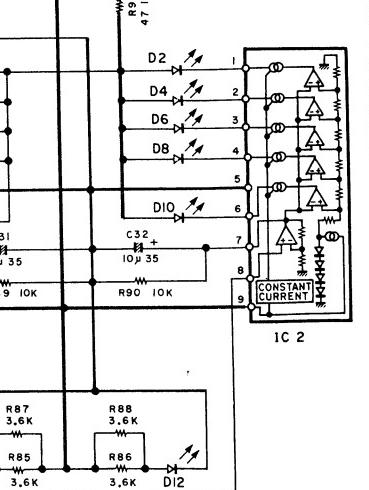


DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.  
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

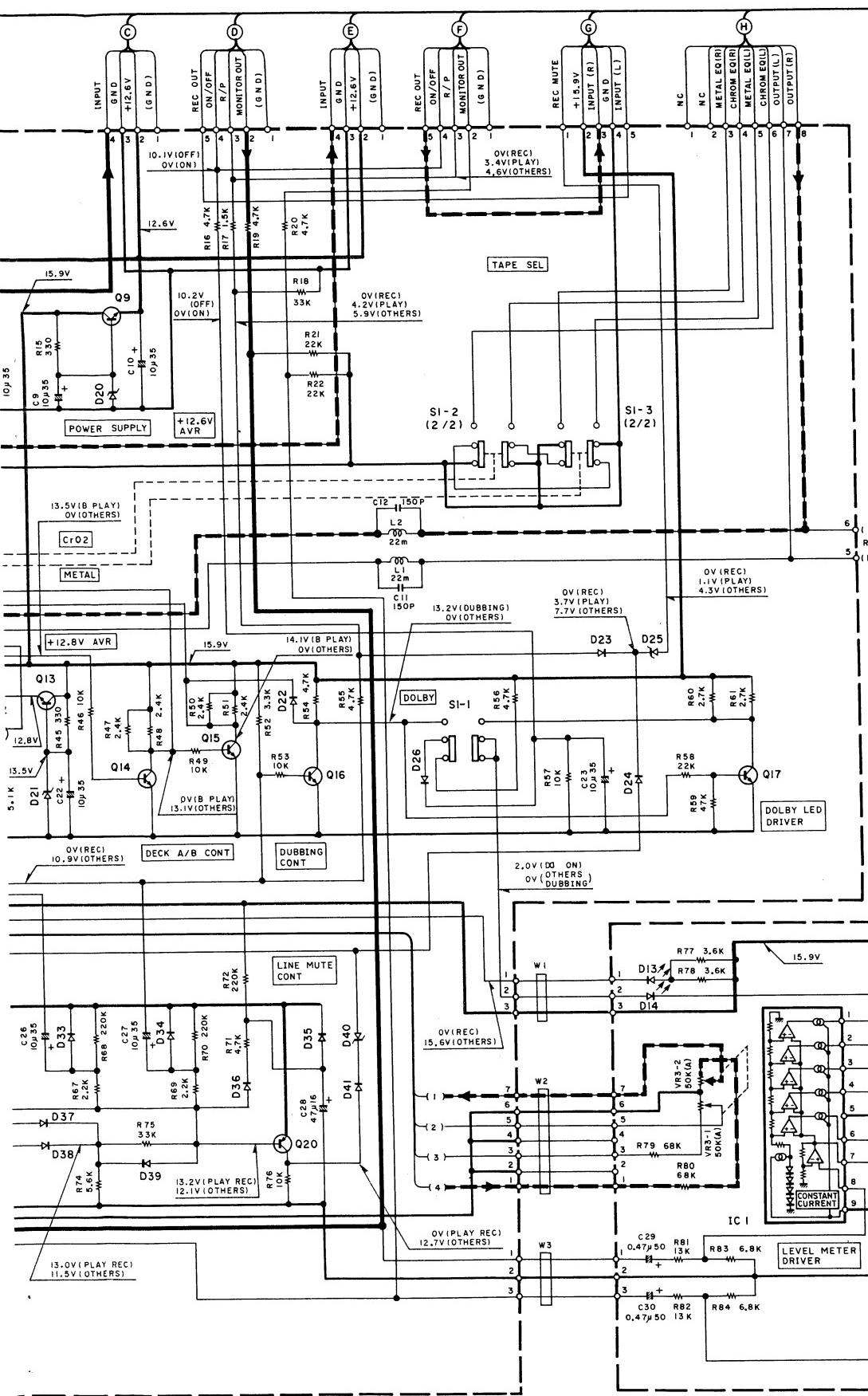
**(X26-1152-70) (A/2)**  
 IC3 : M51551P  
 Q1~6 : 2SC1845(F,E)  
 Q7,8,10,13~17,21,22 : 2SC1740S(Q,R), 2SC945(A)(Q,P) or 2SC1619  
 Q9,19 : 2SC2320(E,F)  
 Q11 : DTC114YFF  
 Q12 : 2SA992(F,E)  
 Q18 : 2SD863(E,F)  
 Q20 : 2SA933S(Q,R), 2SA733(A)(Q,P) or 2SA1127  
 D15~19, 22~24, 26~39, 41, 43 : ISS176 or ISS133

D20,21,42 : RDI3ES(B2) or HZS13N(B2)  
 D25,40 : RD3.9ES(B2) or HZS3.9N(B2)  
 D44 : DSMIA1



**(X26-1152-70) (B/2)**  
 IC1,2 : BA6137  
 D1~13 : B30-0431-05  
 D14 : B30-0432-05

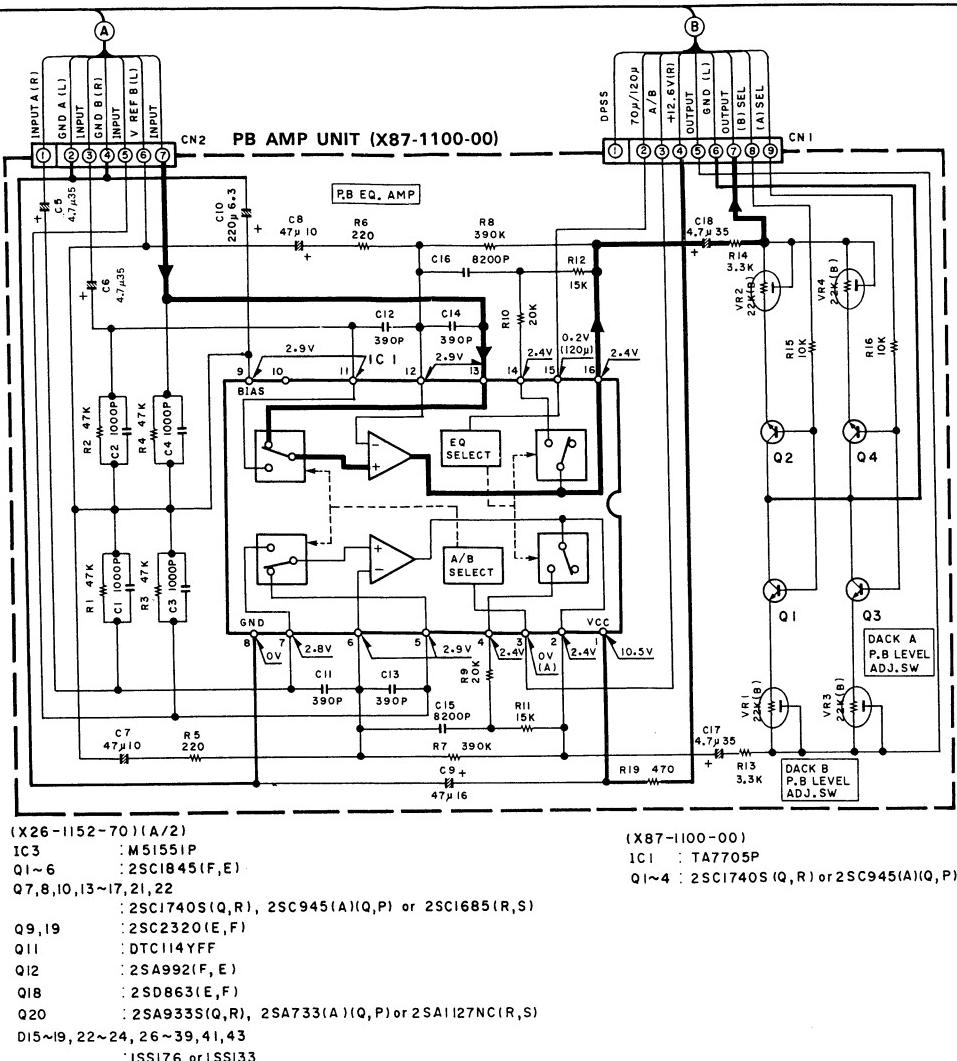
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or units. Bias circuit DC voltages are as measured while in the record mode.



DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

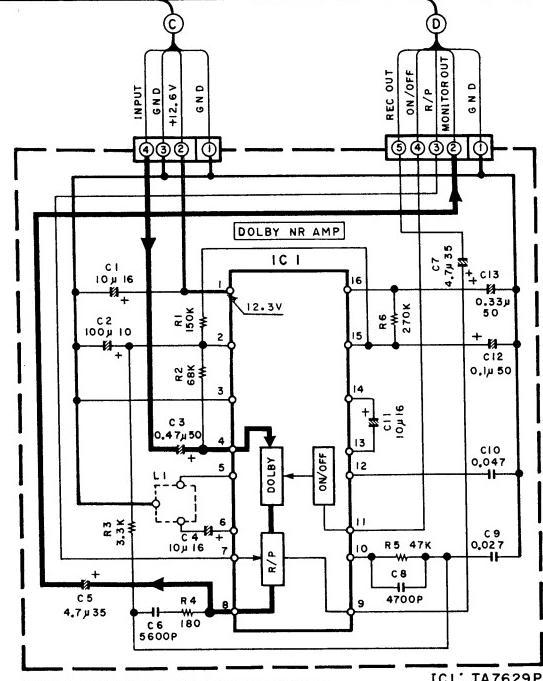


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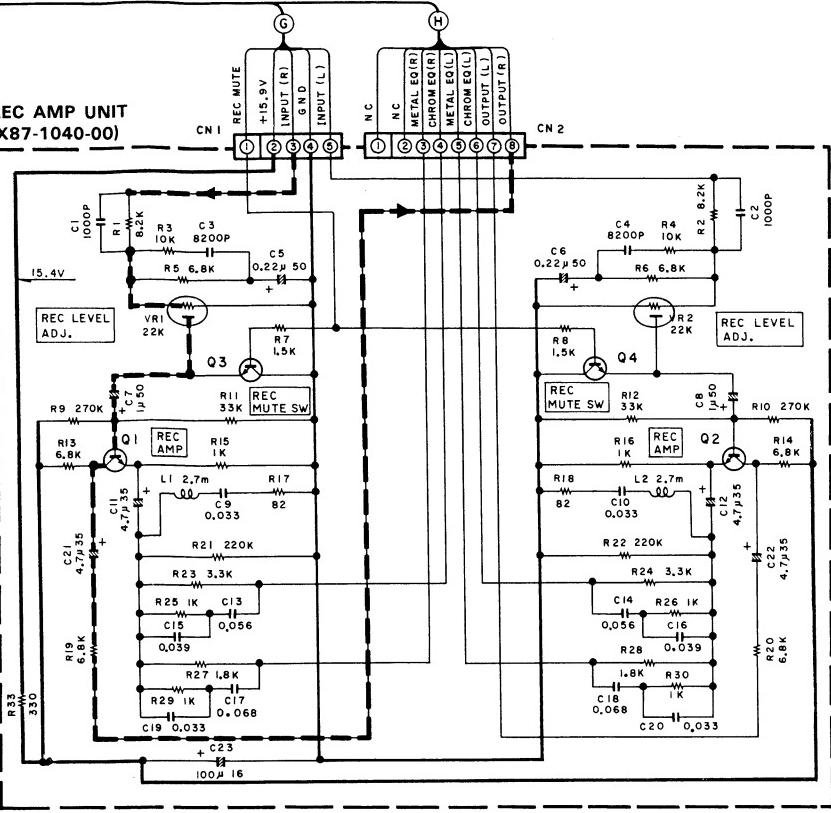
(X26-1152-70)(A/2)
IC3      : M51551P
Q1~6     : 2SC1845(F,E)
Q7,8,10,13~17,21,22
                  : 2SC740S(Q,R), 2SC945(A)(Q,P) or 2SC1685(R,S)
Q9,19    : 2SC2320(E,F)
Q11     : DTC114YFF
Q12     : 2SA992(F,E)
Q18     : 2SD863(E,F)
Q20     : 2SA933S(Q,R), 2SA733(A)(Q,P) or 2SA1127NC(R,S)
D15~19, 22~24, 26~39, 41,43
                  : 2SC1737 or 2SC173

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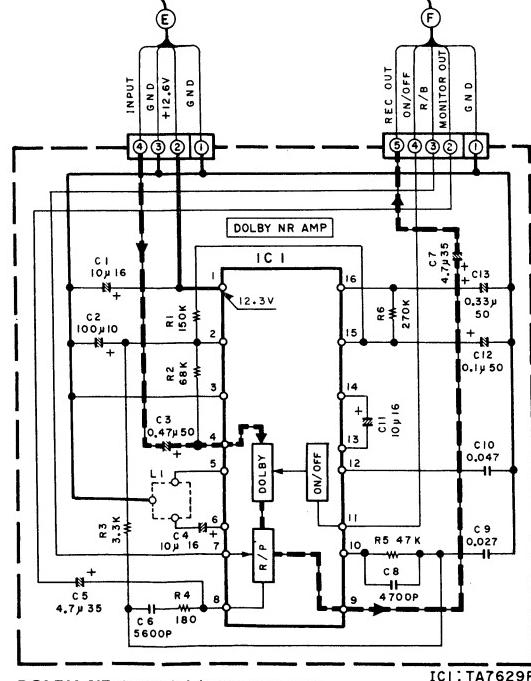
100-001  
TA7705P  
2SC1740S(Q,P) or 2SC945(A,Q,P)



DOLBY NR UNIT (L) (X87-1070-00)



(X87-1040-00)  
Q1,2 : 2SCI845(F,E) or 2SCI980(S,T)  
Q3,4 : 2SCI740S(Q,R), 2SC945(A)(Q,P) or 2SCI685(R,S)



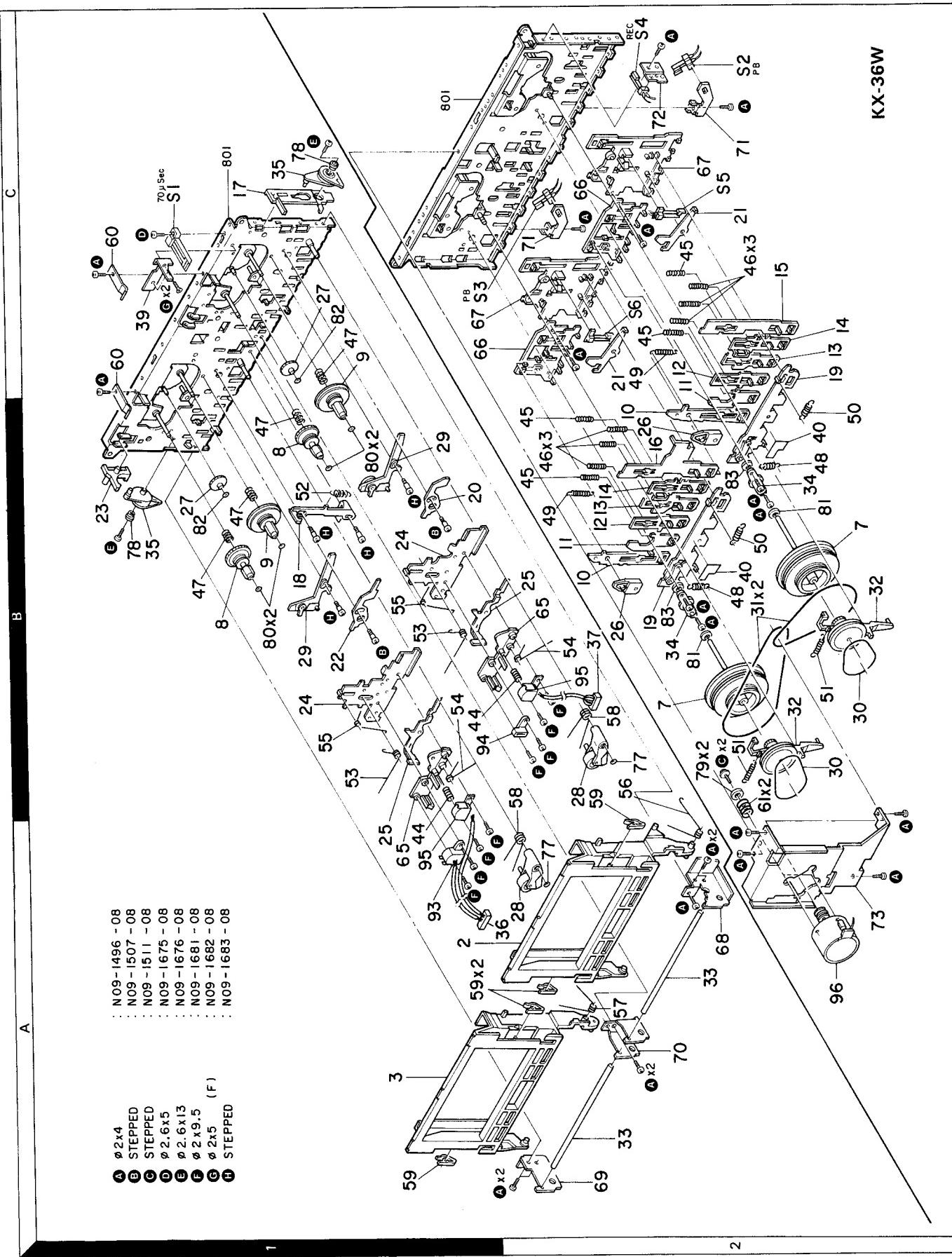
DOLBY NR UNIT (R) (X87-1070-00)

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

SIGNAL LINE  
RECORDING LINE  
GND LINE  
+B LINE

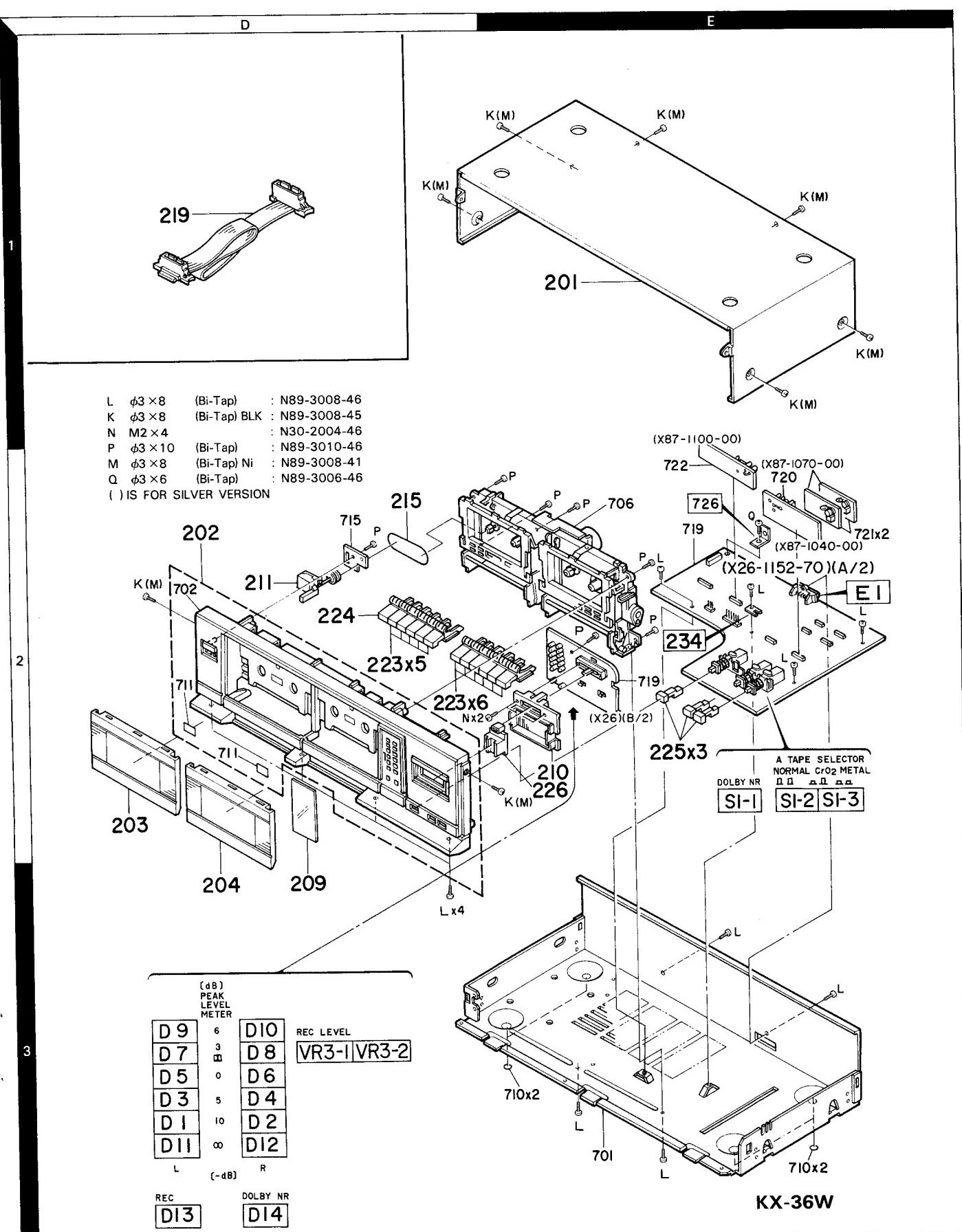
**KX-36W**  
**KENWOOD**

## EXPLODED VIEW (MECHANISM UNIT)



## EXPLODED VIEW (UNIT)

## PARTS LIST



## PARTS LIST

\* New Parts

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| Ref. No.<br>参照番号                                | Address<br>位置 | New<br>Parts<br>新 | Parts No.<br>部品番号 | Description<br>部品名／規格         | Desti-<br>nation<br>仕向 | Re-<br>marks<br>備考 |
|---|---------------|-------------------|-------------------|-------------------------------|------------------------|--------------------|
| Q13 -17   |               |                   | 2SC1740S(Q,R)     | TRANSISTOR                    |                        |                    |
| Q13 -17   |               |                   | 2SC945(A)(Q,P)    | TRANSISTOR                    |                        |                    |
| Q18   |               |                   | 2SD863(E,F)       | TRANSISTOR                    |                        |                    |
| Q19   |               |                   | 2SC2320(E,F)      | TRANSISTOR                    |                        |                    |
| Q20   |               |                   | 2SA1127NC(R,S)    | TRANSISTOR                    |                        |                    |
| Q20   |               |                   | 2SA733(A)(Q,P)    | TRANSISTOR                    |                        |                    |
| Q20   |               |                   | 2SA933S(Q,R)      | TRANSISTOR                    |                        |                    |
| Q21 ,22   |               |                   | 2SC1685(R,S)      | TRANSISTOR                    |                        |                    |
| Q21 ,22   |               |                   | 2SC1740S(Q,R)     | TRANSISTOR                    |                        |                    |
| Q21 ,22   |               |                   | 2SC945(A)(Q,P)    | TRANSISTOR                    |                        |                    |
| <b>RECORD AMPLIFIER UNIT (X87-1040-00)</b>      |               |                   |                   |                               |                        |                    |
| C1 ,2   |               |                   | C91-0652-05       | CERAMIC 0.001UF K             |                        |                    |
| C3 ,4   |               |                   | C91-0674-05       | CERAMIC 0.0082UF K            |                        |                    |
| C5 ,6   |               |                   | CEO4FW1HR22MEL    | ELECTRO 0.22UF 50WV           |                        |                    |
| C7 ,8   |               |                   | CEO4FW1H010MEL    | ELECTRO 1.0UF 50WV            |                        |                    |
| C9 ,10  |               |                   | C91-0688-05       | CERAMIC 0.033UF K             |                        |                    |
| C11 ,12   |               | *                 | CEO4FW1V4R7MEL    | ELECTRO 4.7UF 35WV            |                        |                    |
| C13 ,14   |               | *                 | CF92FV1H563J      | MF 0.056UF J                  |                        |                    |
| C15 ,16   |               | *                 | C91-0690-05       | CERAMIC 0.039UF K             |                        |                    |
| C17 ,18   |               | *                 | CF92FV1H683J      | MF 0.068UF J                  |                        |                    |
| C19 ,20   |               | *                 | C91-0688-05       | CERAMIC 0.033UF K             |                        |                    |
| C21 ,22   |               |                   | CEO4FW1V4R7MEL    | ELECTRO 4.7UF 35WV            |                        |                    |
| C23   |               |                   | CEO4KW1C101M      | ELECTRO 100UF 16WV            |                        |                    |
| L1 ,2   |               | *                 | L40-2725-29       | SMALL FIXED INDUCTOR(2.7MH,J) |                        |                    |
| VR1 ,2  |               | *                 | R12-3101-05       | TRIMMING POT. (22K)REC LEVEL  |                        |                    |
| Q1 ,2   |               |                   | 2SC1845(F,E)      | TRANSISTOR                    |                        |                    |
| Q1 ,2   |               |                   | 2SC1980(S,T)      | TRANSISTOR                    |                        |                    |
| Q3 ,4   |               |                   | 2SC1685(R,S)      | TRANSISTOR                    |                        |                    |
| Q3 ,4   |               |                   | 2SC1740S(Q,R)     | TRANSISTOR                    |                        |                    |
| Q3 ,4   |               |                   | 2SC945(A)(Q,P)    | TRANSISTOR                    |                        |                    |
| <b>DOLBY NOISE REDUCTION UNIT (X87-1070-00)</b> |               |                   |                   |                               |                        |                    |
| C1  |               |                   | CEO4FW1C100M      | ELECTRO 10UF 16WV             |                        |                    |
| C2  |               |                   | CEO4FW1A101M      | ELECTRO 100UF 10WV            |                        |                    |
| C3  |               |                   | CEO4FW1HR47M      | ELECTRO 0.47UF 50WV           |                        |                    |
| C4  |               |                   | CEO4FW1C100M      | ELECTRO 10UF 16WV             |                        |                    |
| C5  |               |                   | CEO4FW1V4R7M      | ELECTRO 4.7UF 35WV            |                        |                    |
| C6  |               | *                 | C91-0670-05       | CERAMIC 0.0056UF K            |                        |                    |
| C7  |               | *                 | CEO4FW1V4R7M      | ELECTRO 4.7UF 35WV            |                        |                    |
| C8  |               | *                 | C91-0668-05       | CERAMIC 0.0047UF K            |                        |                    |
| C9  |               | *                 | C91-0686-05       | CERAMIC 0.027UF K             |                        |                    |
| C10   |               | *                 | C91-0692-05       | CERAMIC 0.047UF K             |                        |                    |
| C11   |               |                   | CEO4FW1C100M      | ELECTRO 10UF 16WV             |                        |                    |
| C12   |               |                   | CEO4FW1H0R1M      | ELECTRO 0.1UF 50WV            |                        |                    |
| C13   |               |                   | CEO4FW1HR33M      | ELECTRO 0.33UF 50WV           |                        |                    |
| L1  |               |                   | L79-0193-05       | LC FILTER                     |                        |                    |
| IC1   |               |                   | TA7629P           | IC(DOLBY B NOISE REDUCTION)   |                        |                    |
| C1 -4   |               |                   | CK45FB1H102K      | CERAMIC 1000PF K              |                        |                    |
| C5 ,6   |               |                   | CEO4KW1V4R7M      | ELECTRO 4.7UF 35WV            |                        |                    |
| C7 ,8   |               |                   | CEO4KW1A470M      | ELECTRO 47UF 10WV             |                        |                    |
| C9  |               |                   | CEO4KW1C470M      | ELECTRO 47UF 16WV             |                        |                    |
| C10   |               |                   | CEO4KW0J221M      | ELECTRO 220UF 6.3WV           |                        |                    |

E: Scandinavia &amp; Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

▲ indicates safety critical components.

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|---|---------------|-------------------|-------------------------------|------------------------------|------------------------|--------------------|
| C11 -14                                       |               |                   | CK45FB1H391K                  | CERAMIC 390PF K              |                        |                    |
| C15 ,16                                       |               |                   | CF92FV1H822J                  | MF 8200PF J                  |                        |                    |
| C17 ,18                                       |               |                   | CEO4KW1V4R7M                  | ELECTRO 4.7UF 35WV           |                        |                    |
| VR1 -4  |               |                   | R12-3101-05                   | TRIMMING POT. (22K)PB LEVEL  |                        |                    |
| IC1   |               |                   | TA7705P                       | IC(PB EQ AMP/FWD REV SWITCH) |                        |                    |
| Q1 -4   |               |                   | 2SC1740S(Q,R)                 | TRANSISTOR                   |                        |                    |
| Q1 -4   |               |                   | 2SC945(A)(Q,P)                | TRANSISTOR                   |                        |                    |
| <b>CASSETTE MECHANISM ASS'Y (D40-0368-05)</b> |               |                   |                               |                              |                        |                    |
| 2   | 1A            | A53-0850-08       | CASSETTE HOLDER(R)            |                              |                        |                    |
| 3   | 1A            | A53-0857-08       | CASSETTE HOLDER(L)            |                              |                        |                    |
| 7   | 2B            | D01-0074-08       | FLYWHEEL ASSY                 |                              |                        |                    |
| 8   | 1B            | D03-0255-08       | REEL DISK                     |                              |                        |                    |
| 9   | 1B,1C         | D03-0256-08       | REEL DISK ASSY                |                              |                        |                    |
| 10  | 2B,           | D10-1744-08       | LEVER (PAUSE)                 |                              |                        |                    |
| 11  | 2B,2C         | D10-1745-08       | LEVER (STOP)                  |                              |                        |                    |
| 12  | 2B,2C         | D10-1746-08       | LEVER (PLAY)                  |                              |                        |                    |
| 13  | 2B,2C         | D10-1747-08       | LEVER (FF)                    |                              |                        |                    |
| 14  | 2B,2C         | D10-1748-08       | LEVER (REW)                   |                              |                        |                    |
| 15  | 2B            | D10-1749-08       | LEVER (REC)                   |                              |                        |                    |
| 16  | 2C            | D10-1750-08       | LEVER                         |                              |                        |                    |
| 17  | 1C            | D10-1751-08       | LEVER (EJECT) DECK B          |                              |                        |                    |
| 18  | 1B            | D10-1752-08       | LEVER (EJECT) DECK A          |                              |                        |                    |
| 19  | 2B,2C         | D10-1753-08       | LEVER ASSY (LOCK CAM)         |                              |                        |                    |
| 20  | 1B            | D10-1754-08       | ARM (PAUSE)                   |                              |                        |                    |
| 21  | 2C            | D10-1755-08       | ARM (REW)                     |                              |                        |                    |
| 22  | 1B            | D10-1756-08       | ARM (PAUSE)                   |                              |                        |                    |
| 23  | 1B            | D10-1757-08       | ARM (REC SENSOR)              |                              |                        |                    |
| 24  | 1B            | D10-1758-08       | SLIDER (HEAD CHASSIS)         |                              |                        |                    |
| 25  | 1A,2B         | D10-1759-08       | ARM ASSY                      |                              |                        |                    |
| 26  | 2B            | D12-0114-08       | CAM (PAUSE)                   |                              |                        |                    |
| 27  | 1B,1C         | D13-0364-08       | GEAR (FF)                     |                              |                        |                    |
| 28  | 2A,2B         | D14-0157-08       | PINCH ROLLER ASSY             |                              |                        |                    |
| 29  | 1B            | D14-0158-08       | IDLER ASSY                    |                              |                        |                    |
| 30  | 2B            | D16-0141-08       | BELT (CLUTCH)                 |                              |                        |                    |
| 31  | 2B            | D16-0142-08       | BELT (FLYWHEEL)               |                              |                        |                    |
| 32  | 2B            | D19-0080-08       | CLUTCH ASSY                   |                              |                        |                    |
| 33  | 2A            | D21-1152-08       | EXTENSION SHAFT               |                              |                        |                    |
| 34  | 2B            | D23-0210-08       | RETAINER                      |                              |                        |                    |
| 35  | 1B,1C         | D39-0175-08       | DAMPER ASSY                   |                              |                        |                    |
| 36  | 2A            | E31-3870-08       | WIRING HARNESS (8P)R/P/E HEAD |                              |                        |                    |
| 37  | 2B            | E31-3871-08       | WIRING HARNESS (3P)P HEAD     |                              |                        |                    |
| 39  | 1C            | F07-0497-08       | COVER                         |                              |                        |                    |
| 40  | 2B            | F20-0498-08       | INSULATING SHEET(SW)          |                              |                        |                    |
| 44  | 1A,1B         | G01-1689-08       | COMPRESSION SPRING            |                              |                        |                    |
| 45  | 2B,2C         | G01-1896-08       | COMPRESSION SPRING (LEVER)    |                              |                        |                    |
| 46  | 2B,2C         | G01-1897-08       | COMPRESSION SPRING (LEVER)    |                              |                        |                    |
| 47  | 1B,1C         | G01-1898-08       | COMPRESSION SPRING            |                              |                        |                    |
| 48  | 2B            | G01-1899-08       | TENSION SPRING                |                              |                        |                    |
| 49  | 2B,2C         | G01-1900-08       | TENSION SPRING (PAUSE LEVER)  |                              |                        |                    |
| 50  | 2B            | G01-1901-08       | TENSION SPRING (CAM)          |                              |                        |                    |
| 51  | 2B            | G01-1902-08       | TENSION SPRING (CLUTCH ARM)   |                              |                        |                    |
| 52  | 1B            | G01-1903-08       | TENSION SPRING (EJECT LEVER)  |                              |                        |                    |

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|------------------|----------------|-------------------|-------------------|------------------------------|------------------------|--------------------|
| 53               | 1B             |                   | G01-1904-08       | TORSION SPRING               |                        |                    |
| 54               | 1B, 2B         |                   | G01-1905-08       | TORSION SPRING               |                        |                    |
| 55               | 1B             |                   | G01-1906-08       | TORSION SPRING               |                        |                    |
| 56               | 2B             |                   | G01-1907-08       | TORSION COIL SPRING(DECK B)  |                        |                    |
| 57               | 2A             |                   | G01-1908-08       | TORSION COIL SPRING(DECK A)  |                        |                    |
| 58               | 2B             |                   | G01-1909-08       | TORSION COIL SPRING(PR)      |                        |                    |
| 59               | 1A, 2B         |                   | G02-0194-08       | FLAT SPRING (CASSETTE CLAMP) |                        |                    |
| 60               | 1C             |                   | G02-0419-08       | FLAT SPRING                  |                        |                    |
| 61               | 2B             |                   | G11-1120-08       | CUSHION (MOTOR)              |                        |                    |
| 65               | 1A, 2B         |                   | J19-2691-08       | HOLDER (HEAD BASE)           |                        |                    |
| 66               | 1C, 2C         |                   | J19-2692-08       | HOLDER (LEVER BASE A)        |                        |                    |
| 67               | 1C, 2C         |                   | J19-2693-08       | HOLDER (LEVER BASE B)        |                        |                    |
| 68               | 2A             |                   | J19-2694-08       | BRACKET (RF)                 |                        |                    |
| 69               | 2A             |                   | J19-2695-08       | BRACKET (LW)                 |                        |                    |
| 70               | 2A             |                   | J19-2696-08       | BRACKET                      |                        |                    |
| 71               | 2C             |                   | J19-2697-08       | BRACKET (SW)                 |                        |                    |
| 72               | 2C             |                   | J19-2698-08       | BRACKET (REC SW)             |                        |                    |
| 73               | 2A             |                   | J21-3887-08       | MOUNTING HARDWARE(MOTOR)     |                        |                    |
| 77               | 2A, 2B         |                   | N19-0366-08       | FLAT WASHER (Ø2.1X4.0)       |                        |                    |
| 78               | 1B, 1C         |                   | N19-0935-08       | FLAT WASHER (Ø2.6)           |                        |                    |
| 79               | 2B             |                   | N19-1029-08       | FLAT WASHER                  |                        |                    |
| 80               | 1B             |                   | N19-1031-08       | FLAT WASHER (Ø1.6X3.5)       |                        |                    |
| 81               | 2B             |                   | N19-1034-08       | FLAT WASHER (Ø2.1X4.0)       |                        |                    |
| 82               | 1B, 1C         |                   | N19-1039-08       | FLAT WASHER (Ø1.2X3.0)       |                        |                    |
| 83               | 2B             |                   | N19-1036-08       | FLAT WASHER (Ø1.6X6.0)       |                        |                    |
| A                | 2A, 2C         |                   | N09-1496-08       | SCREW (Ø2X4)                 |                        |                    |
| B                | 1B             |                   | N09-1507-08       | STEPPED SCREW                |                        |                    |
| C                | 2B             |                   | N09-1511-08       | STEPPED SCREW                |                        |                    |
| D                | 1C             |                   | N09-1675-08       | SCREW (Ø2.6X5)               |                        |                    |
| E                | 1B, 1C         |                   | N09-1676-08       | SCREW (Ø2.6X13)              |                        |                    |
| F                | 1A, 2B         |                   | N09-1681-08       | SCREW (Ø2X9.5)               |                        |                    |
| G                | 1C             |                   | N09-1682-08       | SCREW (Ø2X5)                 |                        |                    |
| H                | 1B             |                   | N09-1683-08       | STEPPED SCREW                |                        |                    |
| S1               | 1C             |                   | S46-1061-08       | LEAF SWITCH (7OUSEC) DECK B  |                        |                    |
| S2               | 1C, 2C         |                   | S46-1086-08       | LEAF SWITCH (PB)             |                        |                    |
| S4               | 2C             |                   | S46-1088-08       | LEAF SWITCH (REC)            |                        |                    |
| S5               | 2C             |                   | S46-1085-08       | LEAF SWITCH                  |                        |                    |
| 93               | 1A             |                   | T32-0304-08       | ERASE HEAD                   |                        |                    |
| 94               | 1B             |                   | T32-0308-08       | ERASE HEAD                   |                        |                    |
| 95               | 1A, 2B         |                   | T34-0317-08       | REC/PLAY HEAD                |                        |                    |
| 96               | 2A             |                   | T42-0401-08       | MOTOR ASSY                   |                        |                    |

E: Scandinavia &amp; Europe

K: USA P: Canada

U: PX(Far East, Hawaii)

T: England M: Other Areas

UE : AAFES(Europe)

X: Australia

 indicates safety critical components.

# SPECIFICATIONS

|                               |  |
|-------------------------------|--|
| <b>Type</b>                   | Stereo double cassette deck with Dolby B NR system   |
| <b>Track System</b>           | 4-track, 2-channel stereo/mono, recording/playback   |
| <b>Recording System</b>       | AC bias system (Bias frequency: 85 kHz)  |
| <b>Erasing System</b>         | AC System  |
| <b>Tape Speed</b>             | 4.76 cm/sec (1-7/8 ips)  |
| <b>Heads</b>                  | Record and Playback Head X 1 (Hard Permalloy)<br>Playback Head X 1 (Hard Permalloy)<br>Erase Head X 1 (Double gap ferrite) |
| <b>Motor</b>                  | Electronically controlled DC motor   |
| <b>Fast Winding Time</b>      | Approx. 135 seconds with C-60 tape   |
| <b>Frequency Response:</b>    |  |
| <b>Normal Tape</b>            | 20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)   |
| <b>CrO<sub>2</sub> Tape</b>   | 20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)   |
| <b>Metal Tape</b>             | 20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)   |
| <b>Signal-to-Noise Ratio:</b> |  |
| <b>Dolby NR ON</b>            | 64 dB  |
| <b>Dolby NR OFF</b>           | 56 dB  |
| <b>Harmonic Distortion</b>    | Less than 1.0% (at 1 kHz, 0 VU with Normal Tape)   |
| <b>Wow and Flutter</b>        | 0.12% (W.R.M.S)<br>±0.3% (DIN)   |
| <b>Dimensions</b>             | W: 420 mm (16-9/16")<br>H: 120 mm (4-3/4")<br>D: 210 mm (8-1/4")   |
| <b>Weight</b>                 | 2.5 kg (5.5 lb)  |
| <b>Reference Tapes</b>        | Normal: KENWOOD ND-54<br>CrO <sub>2</sub> : KENWOOD CD-54<br>Metal: KENWOOD MD-46  |

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 For this reason specifications may be changed without notice.  
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